Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2020-09-30-113** **Date: 08-09-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Byataryanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.
Agency	:	Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/76/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-20
Sample Type /Size	:	Precast Cover Slab (200mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	04/09/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	175.51	200.48	2.116	24189	180.9	7.5	7.0	8.7
2	Cover Slab-2	175.49	200.52	2.122	24183	182.3	7.5	7.0	8.8
3	Cover Slab-3	175.50	200.51	2.118	24186	181.5	7.5	7.0	8.7

* The results obtained are satisfactory as per standard requirements.

Note:

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CIVIL Pro Sig. Date BANGALORE

FOR CIVIL Pro,

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-09-30-113** **Date: 08/09/2020**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Byataryanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.

Agency : Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/76/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/09/2020	08/09/2020	150.21 X 150.59 X 151.83	22619	8.759	408.6	18.1	18.5
2	PCC	M20	01/09/2020	08/09/2020	149.78 X 150.59 X 150.71	22556	8.589	425.8	18.9	
3	PCC	M20	01/09/2020	08/09/2020	151.98 X 149.19 X 151.25	22674	8.035	422.6	18.6	

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-30-113

Date: 29/09/2020

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Byataryanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.

Agency : Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/76/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/09/2020	29/09/2020	151.12 X 149.87 X 150.48	22650	8.109	534.6	23.6	23.4
2	PCC	M20	01/09/2020	29/09/2020	150.10 X 150.48 X 149.31	22588	8.138	511.6	22.7	
3	PCC	M20	01/09/2020	29/09/2020	150.94 X 151.79 X 151.62	22911	8.445	546.3	23.8	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2020-09-30-113** **Date: 31-08-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Byataryanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.
Agency	:	Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/76/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	29-08-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Authorized Signatory
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Date: 26-08-20

Lab ID	:	**CP-2020-09-30-113**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burial Ground in Ward No 06 Byataryanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.
Agency	:	Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/76/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	24-08-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	201	407	40.7	59.3	30-70	55-90	75-100	90-100
5	600 micron	168	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	229	804	80.4	19.6	5-20	8-30	12-40	15-50
7	150 micron	153	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-09-30-113**

Date: 26-08-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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QC ABSTRACT

NAME OF WORK: Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Byataryanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
	Materials					
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (200mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	PCC(M20)	Compressive Strength(7days and 28days)	5 set/ 51-100 cum	59.56	10	10

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-09-30-113 **Date: 27-08-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayannapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Bytaryanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.
Agency	:	Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/76/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	25-08-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 22-09-20

Lab ID	:	CP-2020-09-30-113
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Byataryanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.
Agency	:	Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/76/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	25-08-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm2	Not less than 53 N/mm^2

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-09-30-113** **Date: 27-08-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Byataryanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.
Agency	:	Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/76/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	24-08-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-08-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-09-30-113** **Date: 27-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

* The results obtained are satisfactory as per standard requirements.

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2020-09-30-113 Date: 26-08-20
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Byataryanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.
Agency	:	Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.
Customer Reference	:	BBMP/EE/BTP/WO/76/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-08-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-09-30-113** **Date: 26-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-09-30-113** **Date: 08/09/2020**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Byataryanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.

Agency : Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/76/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/09/2020	08/09/2020	151.30 X 150.44 X 151.67	22761	8.759	425.2	18.7	18.5
2	PCC	M20	01/09/2020	08/09/2020	150.74 X 149.68 X 150.11	22562	8.589	406.8	18.0	
3	PCC	M20	01/09/2020	08/09/2020	150.46 X 150.64 X 149.17	22667	8.035	424.7	18.7	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-30-113

Date: 29/09/2020

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Byataryanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.

Agency : Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/76/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/09/2020	29/09/2020	149.32 X 150.94 X 151.55	22538	8.109	530.4	23.5	23.2
2	PCC	M20	01/09/2020	29/09/2020	149.20 X 150.16 X 150.29	22403	8.138	499.9	22.3	
3	PCC	M20	01/09/2020	29/09/2020	151.86 X 151.73 X 151.38	23043	8.445	550.7	23.9	

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/09/2020

Lab ID	:	CP-2020-09-30-113
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Byataryanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.
Agency	:	Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/76/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/09/2020	08/09/2020	150.46 X 150.15 X 151.49	22591	8.759	407.4	18.0	18.1
2	PCC	M20	01/09/2020	08/09/2020	150.77 X 150.59 X 151.81	22704	8.589	411.7	18.1	
3	PCC	M20	01/09/2020	08/09/2020	149.73 X 151.55 X 151.57	22692	8.035	408.6	18.0	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-30-113 Date: 29/09/2020

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Bytaryanapura Sub Division . 4) Construction of tc Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.

Agency : Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/76/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/09/2020	29/09/2020	151.50 X 150.17 X 149.02	22752	8.109	530.9	23.3	23.2
2	PCC	M20	01/09/2020	29/09/2020	149.79 X 150.98 X 149.13	22614	8.138	516.4	22.8	
3	PCC	M20	01/09/2020	29/09/2020	150.86 X 150.78 X 149.41	22747	8.445	533.2	23.4	

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/09/2020

Lab ID	:	CP-2020-09-30-113
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Byataryanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.
Agency	:	Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/76/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/09/2020	08/09/2020	151.80 X 149.48 X 151.26	22690	8.759	425.8	18.8	18.6
2	PCC	M20	01/09/2020	08/09/2020	151.64 X 149.98 X 149.47	22743	8.589	417.0	18.3	
3	PCC	M20	01/09/2020	08/09/2020	150.45 X 151.59 X 151.99	22807	8.035	429.0	18.8	

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CIVIL PRO Sig. Date BANGALORE

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/09/2020

Lab ID : CP-2020-09-30-113

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Heggdenagara Hindu Burrial Ground in Ward No 06 Byatarayanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura . 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.

Agency : Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/76/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/09/2020	29/09/2020	150.00 X 149.41 X 151.34	22412	8.109	529.2	23.6	23.2
2	PCC	M20	01/09/2020	29/09/2020	150.62 X 151.90 X 149.11	22879	8.138	523.1	22.9	
3	PCC	M20	01/09/2020	29/09/2020	151.23 X 149.16 X 150.09	22557	8.445	521.9	23.1	

* The results obtained are satisfactory as per standard requirements.

Note:
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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/09/2020

Lab ID	:	CP-2020-09-30-113
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Byataryanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.
Agency	:	Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/76/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/09/2020	08/09/2020	150.21 X 149.91 X 149.70	22518	8.759	426.6	18.9	18.9
2	PCC	M20	01/09/2020	08/09/2020	150.49 X 151.30 X 149.18	22769	8.589	428.7	18.8	
3	PCC	M20	01/09/2020	08/09/2020	149.46 X 149.39 X 150.72	22329	8.035	419.3	18.8	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/09/2020

Lab ID : CP-2020-09-30-113

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 10Works .1) Additional and Alterationn Works and Construction of Toilet at Existing Help Point Building at Hegadenagara in Ward No 06 Byatarayanapura Sub Division . 2) Construction of Lead of Drains to Connect Storm Water Drains at Bhagyashree Layout in Ward No 06 Byatarayanapura Sub Division . 3) Providing and Constructing Drains in Hegdenagara Hindu Burrial Ground in Ward No 06 Byatarayanapura Sub Division . 4) Construction of to Toilets in Dasarahalli in Ward No 06 Byatarayanapura Sub Division . 5) Repairs and Maintenance of Existing Dry Waste Collection center Building at Hegdenagara in Ward No 06 Byatarayanapura sub Division . 6) Maintenance of Community Property Including Parks in Ward No 07 Byatarayanapura . 7) Improvements to Footpath of Vinayaka Layout 1st Stage Main Road in Ward No 07 Byatarayanapura. 8) Maintenance of General Public Toilets in Ward No 07 Byatarayanapura . 9) Maintenance of Crematorium Burial Grounds and Officce Maintenance in Ward No 07 Byatarayanapura. 10) Desilting of Strom Water Drains in Ward No 07 Byatarayanapura.

Agency : Sri. Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa Layout, Veerannapalya, Arabic College (P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/76/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/09/2020	29/09/2020	149.45 X 149.88 X 151.64	22400	8.109	533.1	23.8	23.3
2	PCC	M20	01/09/2020	29/09/2020	151.00 X 150.79 X 149.41	22769	8.138	520.0	22.8	
3	PCC	M20	01/09/2020	29/09/2020	150.08 X 150.31 X 151.77	22559	8.445	525.0	23.3	

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Quality Manager

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